

What is claimed is:

1. The battery array with cooling system comprising:

an outer case, where two opposing sides of the outer case have arrays of ventilation holes, at least two serial or parallel connected individual batteries enclosed in said outer case having imbedded cooling system between said batteries.

2. The battery array with cooling system of claim 1, wherein said imbedded cooling

system further including at least one column having metal pipes or metal plate with a row of hallowed holes, where the number of said pipes or holes in each column is determined by the height of said battery, wherein the number of ventilation holes on said outer case matches the number of said pipes or the holes in said metal plates; and

the positions of the ventilation holes on the opposite side of said outer case are aligned to positions of the holes in said pipes or plates.

3. The battery array with cooling system of claim 1, wherein the diameter of the holes in said pipes is in a rang of 1.5mm to 5mm and the hallowed holes in said metal plate can be in either square or round; if they are in round the diameter will be from 1.5mm to 5mm; and if they are in square the size will be 1.5x1.5mm to 5x5mm.

4. The battery array with cooling system of claim 1, wherein the battery array further including at least one fan, at least one temperature sensor and a temperature control circuit, where the fan is installed inside of said outer case and above individual batteries,

which the operations of the fan is controlled by the temperature control circuit and the sensor.

5. The battery array with cooling system of claim 1, wherein the individual battery can be lithium battery, plumbous acid battery, hydrogen nickel battery or cadmium nickel battery.